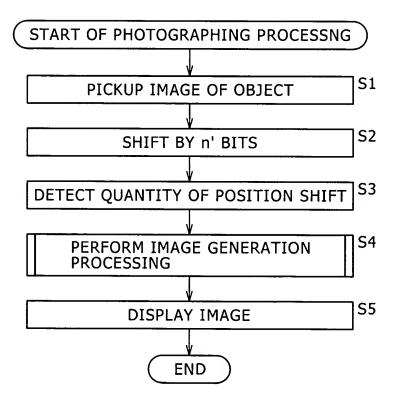
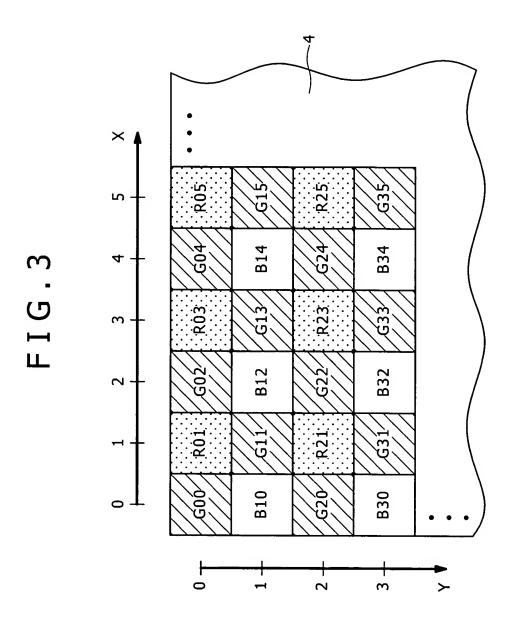
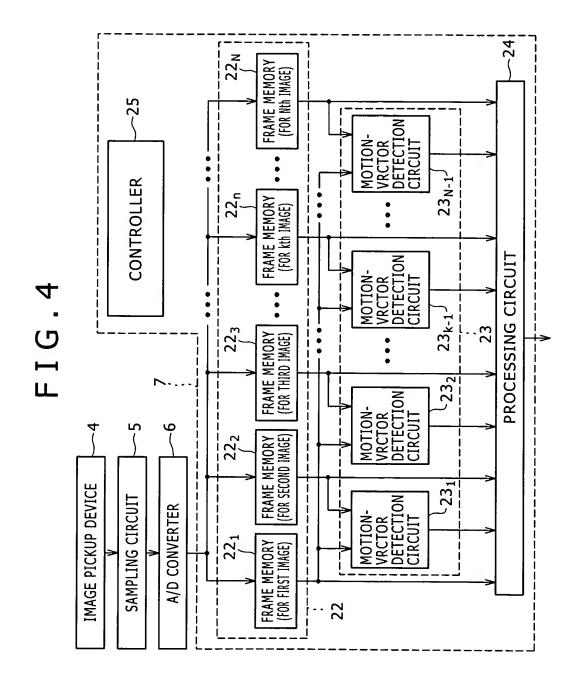
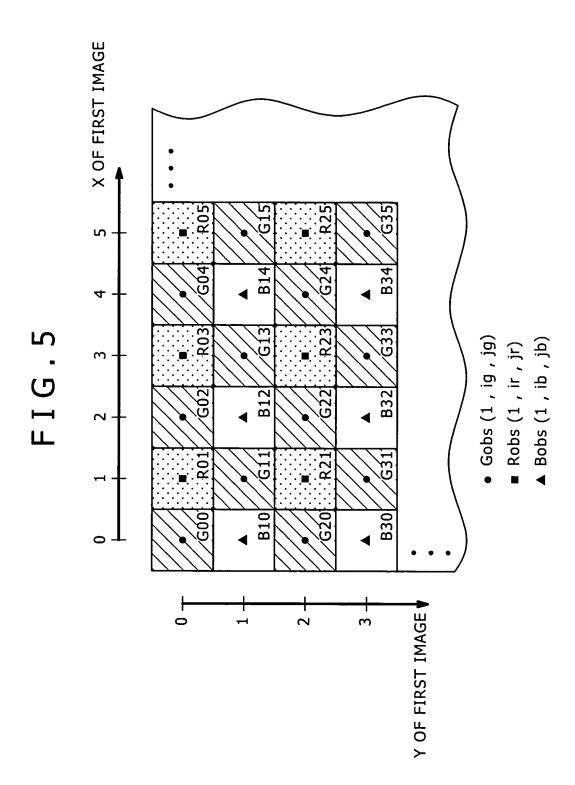


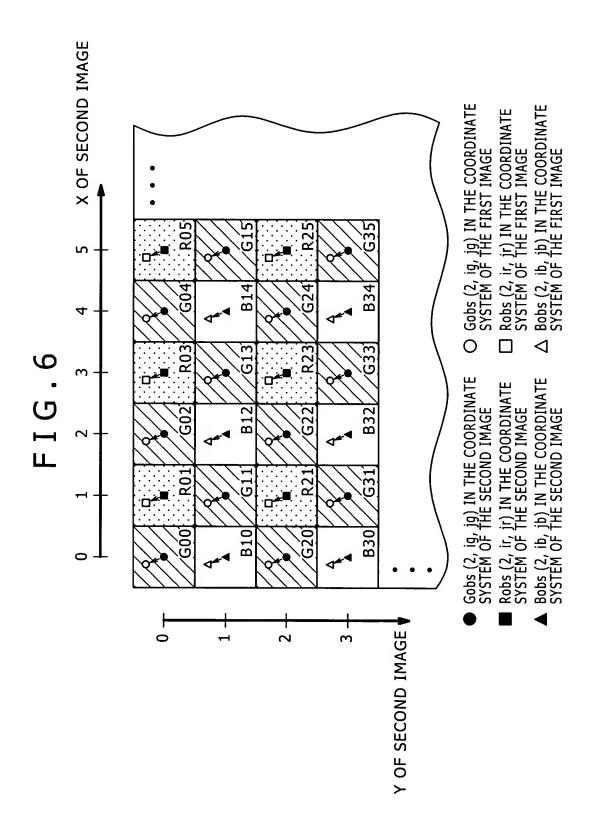
FIG.2

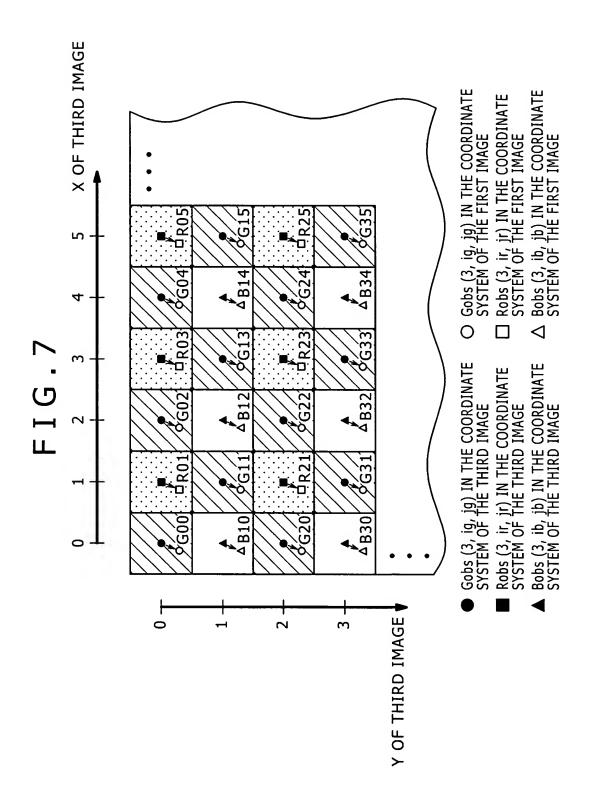


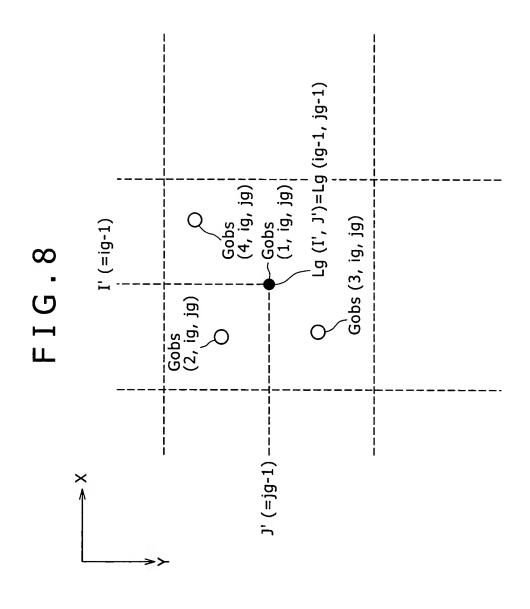


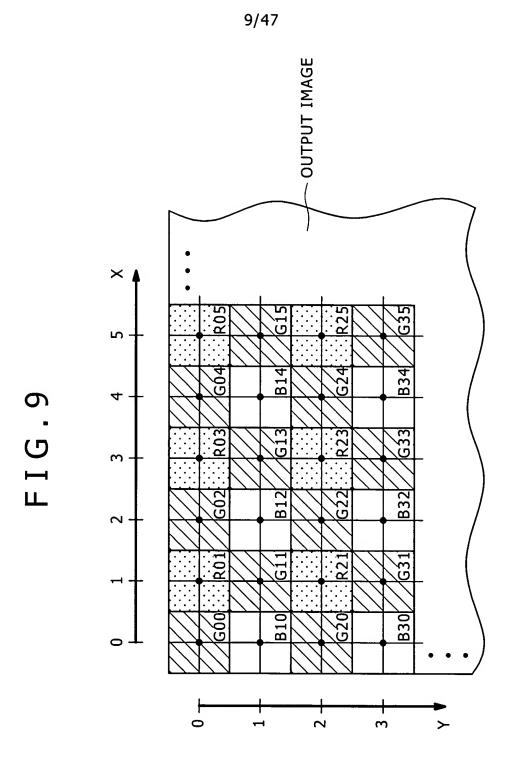


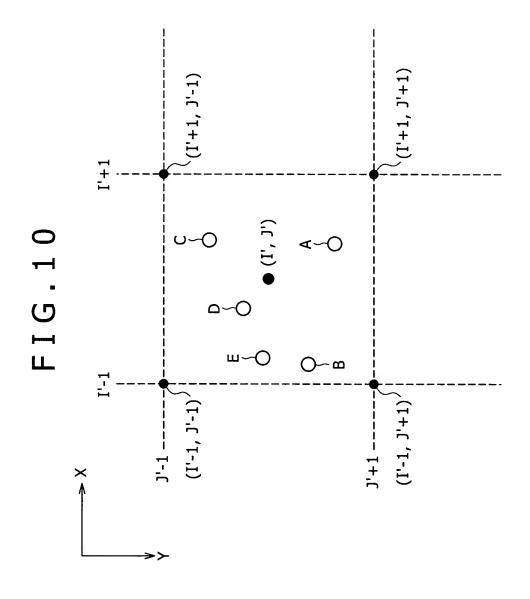


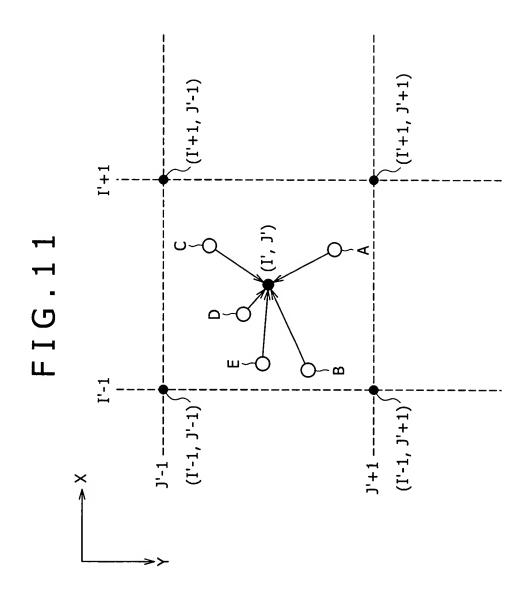




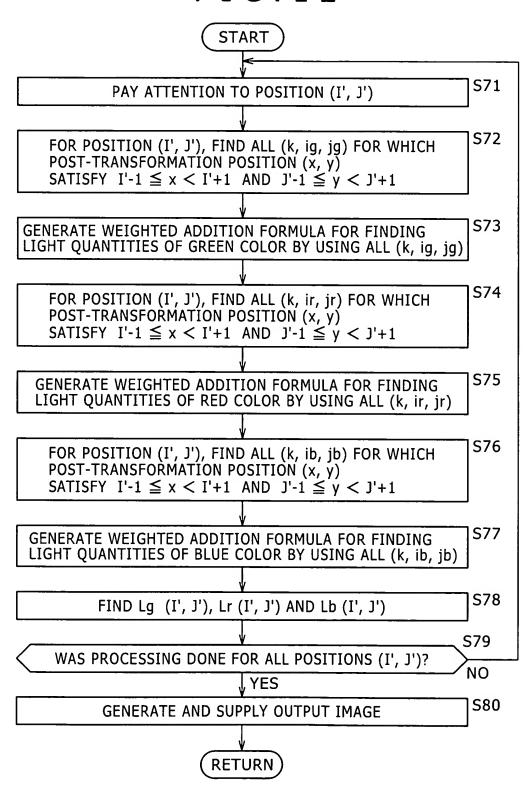




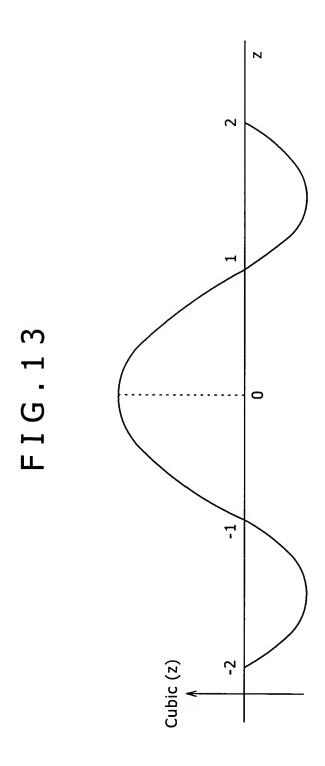




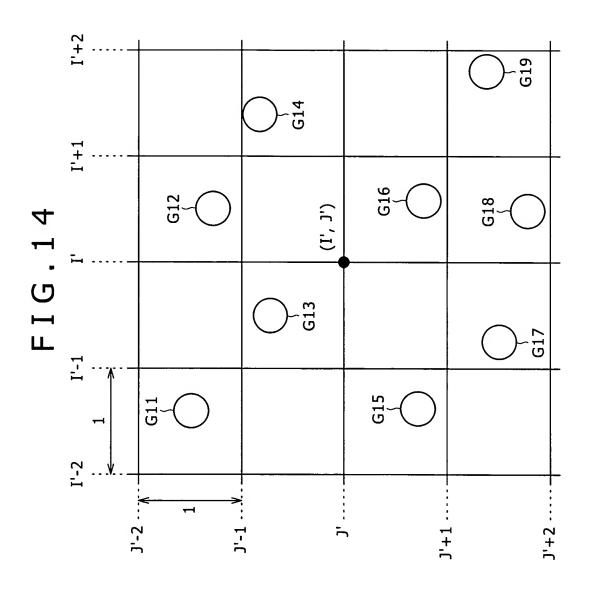
### 12/47

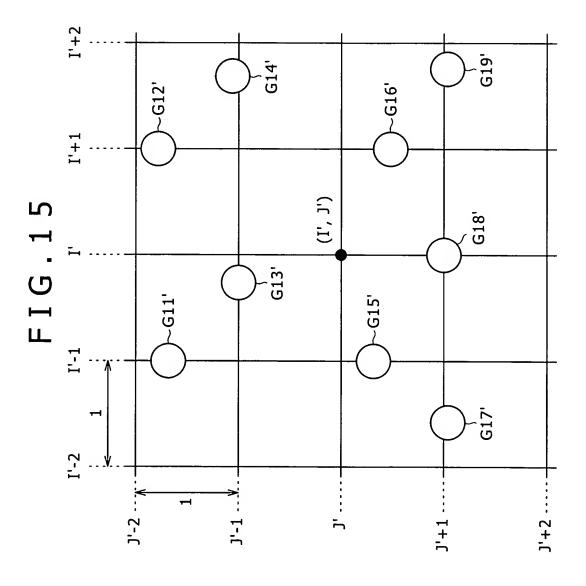


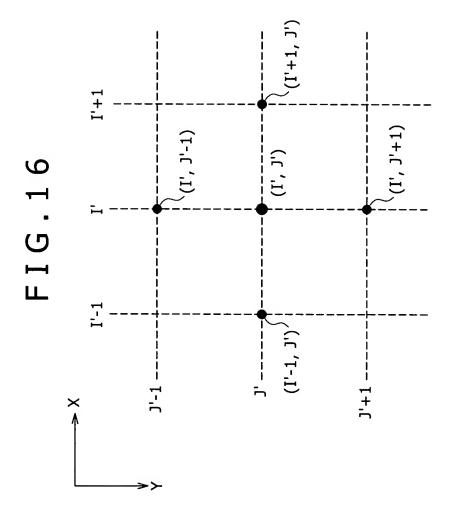
13/47

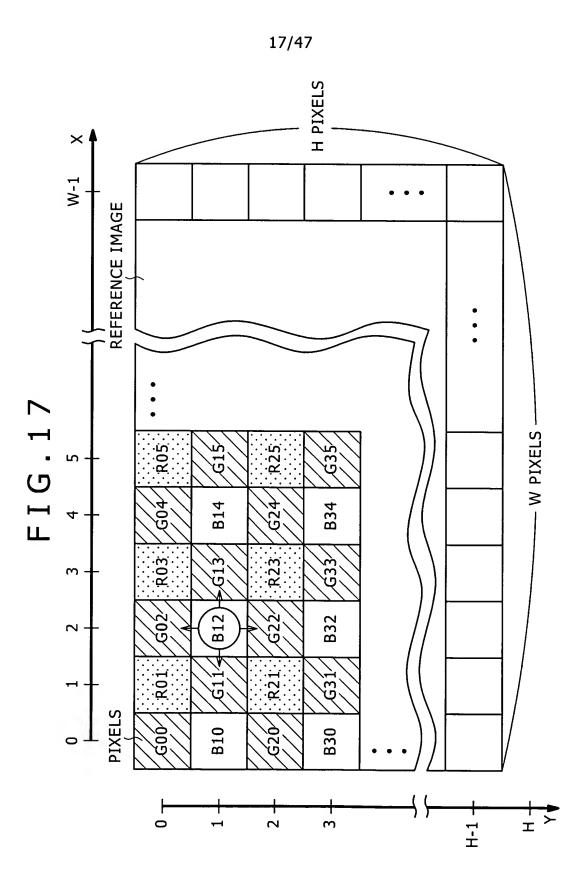


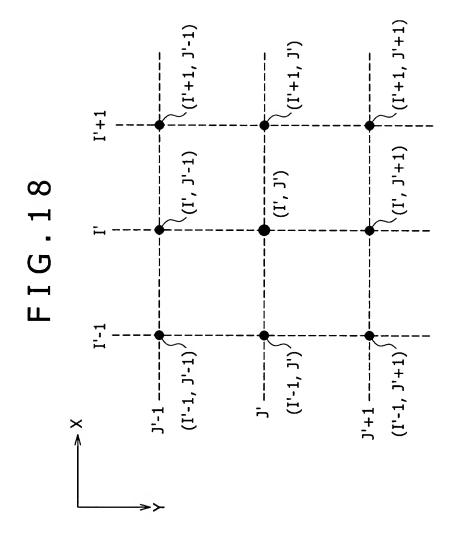
14/47

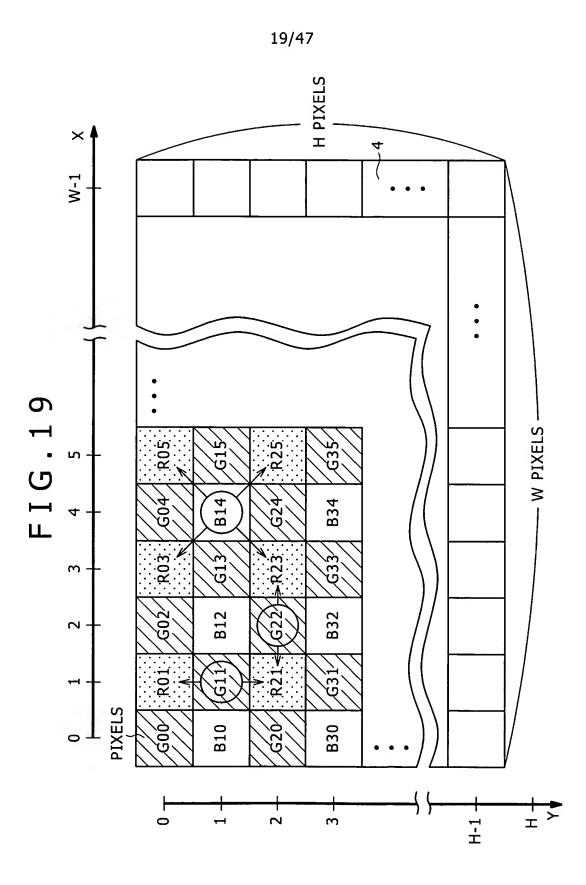




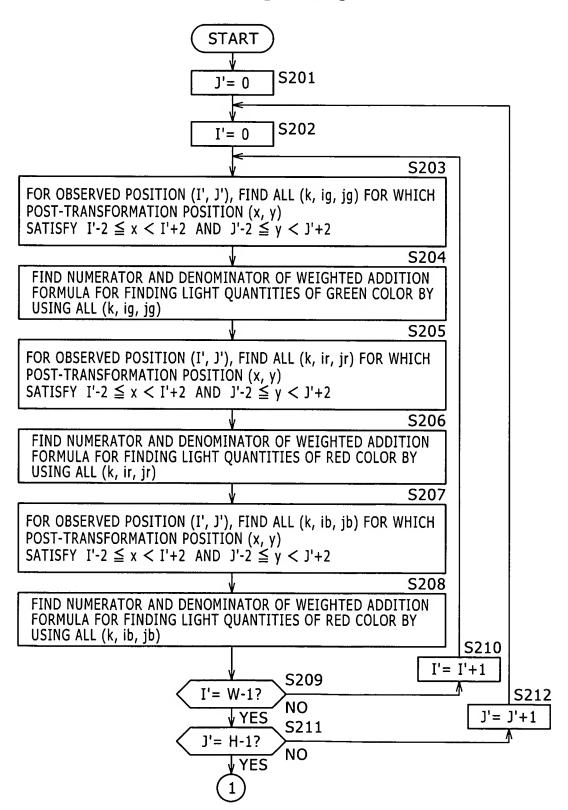


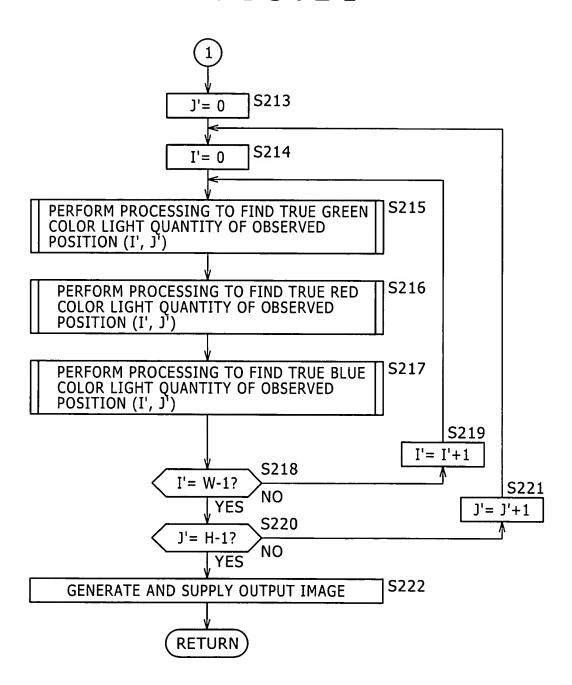






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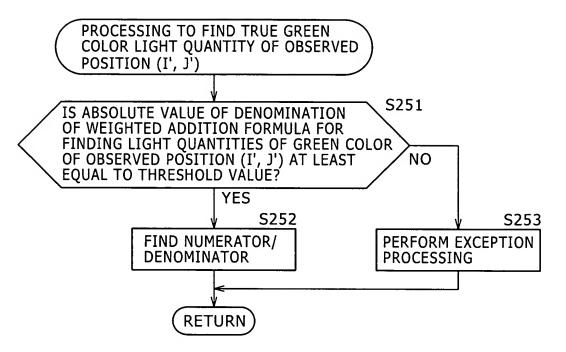
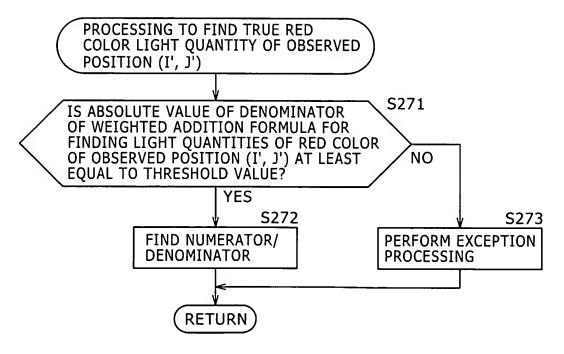
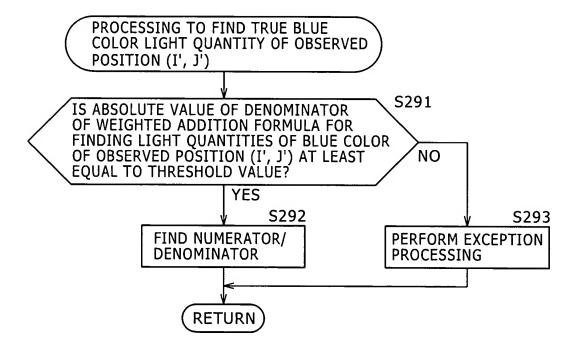
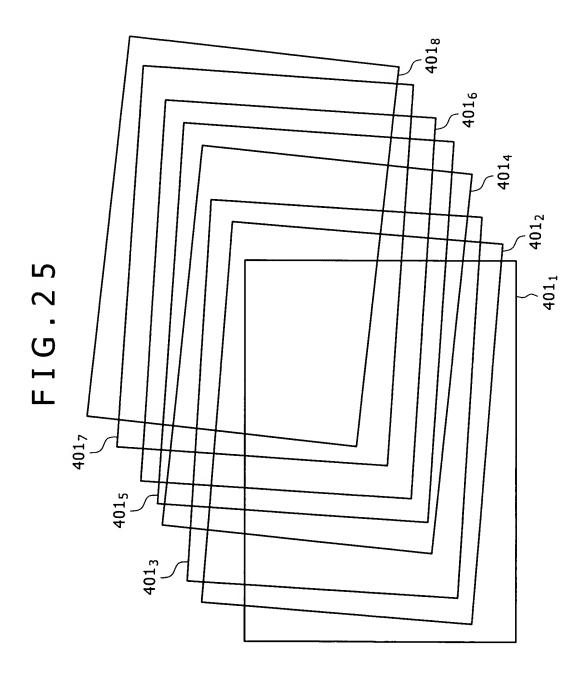
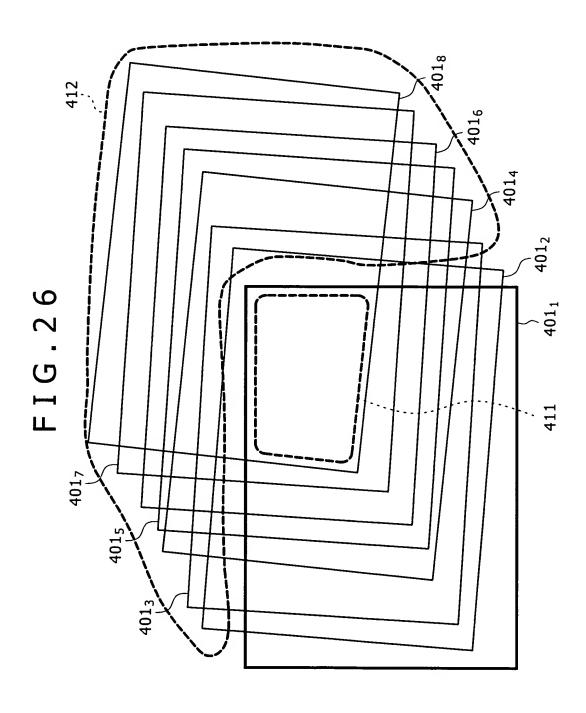


FIG.23









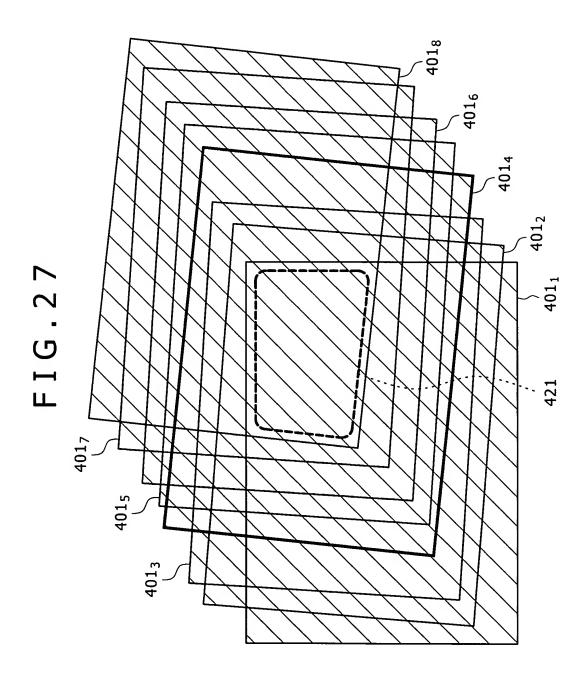
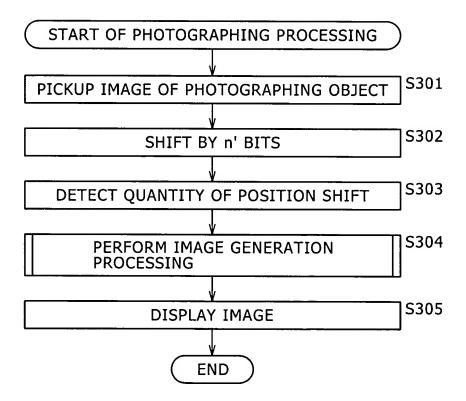
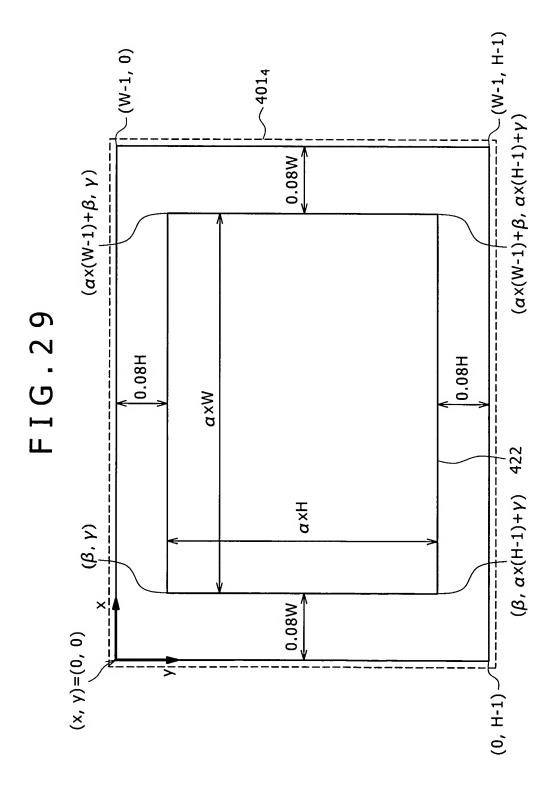
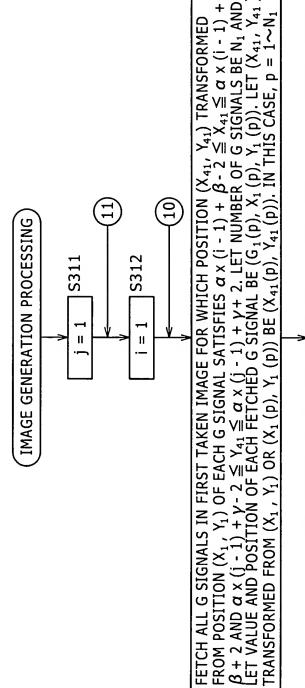


FIG.28









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FETCH ALL G SIGNALS IN SECOND TAKEN IMAGE FOR WHICH POSITION ( $\chi_2$ ,  $\gamma_4$ ) TRANSFORMED FROM POSITION ( $\chi_2$ ,  $\gamma_2$ ) OF EACH G SIGNAL IN SECOND TAKEN IMAGE SATISFIES  $\alpha$   $\times$  (i - 1) + eta - 2  $\leq$  X<sub>42</sub>  $\leq$  lpha  $\dot{\lambda}$  (i - 1) + eta dand lpha  $\dot{\lambda}$  (i - 1) + eta - 2  $\leq$  Y<sub>42</sub>  $\leq$  lpha  $\dot{\lambda}$  (i - 1) + eta + 2. Let number of G signals be  $n_2$  and let value and position of Each Fetched G signal BE ( $G_2(p)$ ,  $X_2(p)$ ,  $Y_2(p)$ ). LET ( $X_{42}$ ,  $Y_{42}$ ) TRANSFORMED FROM ( $X_2$ ,  $Y_2$ ) OR ( $X_2(p)$ ,  $Y_2(p)$ ) FROM POSITION (X2, Y2)

**S314** 

E  $(X_{42}(p), Y_{42}(p))$ . IN THIS CASE,  $p = 1 \sim N_2$ 

<u>-</u>

FETCH ALL G SIGNALS IN THIRD TAKEN IMAGE FOR WHICH POSITION (X43, Y43) TRANSFORMED FROM POSITION (X<sub>3</sub>, Y<sub>3</sub>) OF EACH G SIGNAL IN THIRD TAKEN IMAGE SATISFIES  $\alpha$  x (i - 1) +  $\beta$  + 2 AND  $\alpha$  x (j - 1) +  $\gamma$  - 2  $\leq$  Y<sub>43</sub>  $\leq$   $\alpha$  x (j - 1) +  $\gamma$  + 2. LET NUMBER OF G SIGNALS BE N<sub>3</sub> AND LET VALUE AND POSITION OF EACH FETCHED G SIGNAL BE (G<sub>3</sub>(p), X<sub>3</sub>(p), Y<sub>3</sub>(p)). LET (X<sub>43</sub>, Y<sub>43</sub>) TRANSFORMED FROM (X<sub>3</sub>, Y<sub>3</sub>) OR (X<sub>3</sub>(p), Y<sub>3</sub>(p)) BE (X<sub>43</sub>(p), Y<sub>43</sub>(p)). IN THIS CASE,  $p = 1 \sim N_3$  **S316** 

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FETCH ALL G SIGNALS IN FOURTH TAKEN IMAGE FOR WHICH POSITION (X44, Y44) TRANSFORMED FROM POSITION (X4, Y4) OF EACH G SIGNAL IN FOURTH TAKEN IMAGE SATISFIES  $\alpha$  × (i - 1) +  $\beta$  - 2  $\leq$  X44  $\leq$   $\alpha$  × (i - 1) +  $\beta$  + 2 AND  $\alpha$  × (j - 1) +  $\gamma$  - 2  $\leq$  Y44  $\leq$   $\alpha$  × (j - 1) +  $\gamma$  + 2. LET NUMBER OF G SIGNALS BE N4 AND LET VALUE AND POSITION OF EACH FETCHED G SIGNAL BE (G<sub>4</sub>(p), X<sub>4</sub>(p), Y<sub>4</sub>(p)). LET (X<sub>44</sub>, Y<sub>44</sub>) TRANSFORMED FROM (X<sub>4</sub>, Y<sub>4</sub>) OR (X<sub>4</sub>(p), Y<sub>4</sub>(p)) BE (X<sub>44</sub>(p), Y<sub>44</sub>(p)). IN THIS CASE, p = 1 $\sim$ N<sub>4</sub> **S317** 

FROM POSITION (X<sub>5</sub>, Y<sub>5</sub>) OF EACH G SIGNAL IN FIFTH TAKEN IMAGE SATISFIES  $\alpha \times (i-1) + \beta + 2$  AND  $\alpha \times (j-1) + \gamma - 2 \le Y_{45} \le \alpha \times (j-1) + \gamma + 2$ . LET NUMBER OF G SIGNALS BE N<sub>5</sub> AND LET VALUE AND POSITION OF EACH FETCHED G SIGNAL FETCH ALL G SIGNALS IN FIFTH TAKEN IMAGE FOR WHICH POSITION (X45, Y45) TRANSFORMED BE (G<sub>5</sub>(p), X<sub>5</sub>(p), Y<sub>5</sub>(p)). LET (X<sub>45</sub>, Y<sub>45</sub>) TRANSFORMED FROM (X<sub>5</sub>, Y<sub>5</sub>) OR (X<sub>5</sub>(p), Y<sub>5</sub>(p)) BE (X<sub>45</sub>(p), Y<sub>45</sub>(p)). IN THIS CASE,  $p = 1 \sim N_5$ 

(2)

7

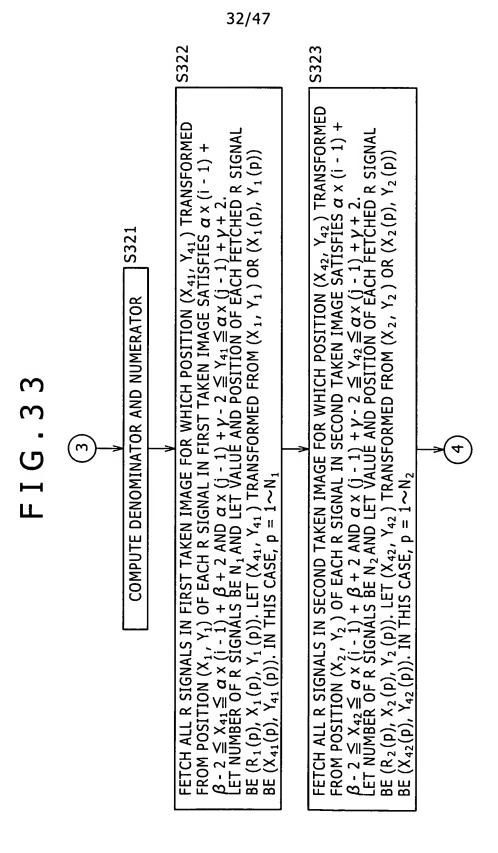
FETCH ALL G SIGNALS IN SIXTH TAKEN IMAGE FOR WHICH POSITION (X  $_{46}$ , Y  $_{46}$ ) TRANSFORMED FROM POSITION (X  $_6$ , Y  $_6$  ) OF EACH G SIGNAL IN SIXTH TAKEN IMAGE SATISFIES lpha × (i - 1) + FROM POSITION ( $X_6$ ,  $Y_6$ ) OF EACH G SIGNAL IN SIXTH TAKEN IMAGE SATISFIES  $\alpha \times (i-1) + \beta + 2$  AND  $\alpha \times (j-1) + \gamma - 2 \le Y_{46} \le \alpha \times (j-1) + \gamma + 2$ . LET NUMBER OF G SIGNALS BE  $N_6$  AND LET VALUE AND POSITION OF EACH FETCHED G SIGNAL BE ( $G_6(p)$ ,  $X_6(p)$ ,  $Y_6(p)$ ). LET ( $X_{46}$ ,  $Y_{46}$ ) TRANSFORMED FROM ( $X_6$ ,  $Y_6$ ) OR ( $X_6(p)$ ,  $Y_6(p)$ ). IN THIS CASE,  $p=1 \sim N_3$  D | \$319

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FETCH ALL G SIGNALS IN SEVENTH TAKEN IMAGE FOR WHICH POSITION (X 47, Y 47) TRANSFORMED FROM POSITION (X<sub>7</sub>, Y<sub>7</sub>) OF EACH G SIGNAL IN SEVENTH TAKEN IMAGE SATISFIES  $\alpha$  × (i - 1) +  $\beta$  - 2  $\leq$  X<sub>47</sub>  $\leq$   $\alpha$  × (i - 1) +  $\beta$  + 2 AND  $\alpha$  × (j - 1) +  $\gamma$  - 2  $\leq$  Y<sub>47</sub>  $\leq$   $\alpha$  × (j - 1) +  $\gamma$  + 2. LET NUMBER OF G SIGNALS BE N<sub>7</sub> AND LET VALUE AND POSITION OF EACH FETCHED G SIGNAL BE  $(G_7(p), X_7(p), Y_7(p))$ . LET  $(X_{47}, Y_{47})$  TRANSFORMED FROM  $(X_7, Y_7)$  OR  $(X_7(p), Y_7(p))$  $Y_{47}(p)$ ). IN THIS CASE,  $p = 1 \sim N_7$  $(X_{47}(p),$  **S320** 

FETCH ALL G SIGNALS IN EIGHTH TAKEN IMAGE FOR WHICH POSITION ( $\chi_{48}$ ,  $\gamma_{48}$ ) TRANSFORMED FROM POSITION ( $\chi_8$ ,  $\gamma_8$ ) OF EACH G SIGNAL IN EIGHTH TAKEN IMAGE SATISFIES  $\alpha \times (i-1) + \beta + 2$  AND  $\alpha \times (j-1) + \gamma - 2 \le \gamma_{48} \le \alpha \times (j-1) + \gamma + 2$ . LET NUMBER OF G SIGNALS BE N8 AND LET VALUE AND POSITION OF EACH FETCHED G SIGNAL BE ( $G_8(p)$ ,  $X_8(p)$ ,  $Y_8(p)$ ). LET ( $X_{48}$ ,  $Y_{48}$ ) TRANSFORMED FROM ( $X_8$ ,  $Y_8$ ) OR ( $X_8(p)$ ,  $Y_8(p)$ ) BE ( $X_{48}(p)$ ,  $Y_{48}(p)$ ). IN THIS CASE,  $p=1{\sim}N_8$ 

(3)



4

FETCH ALL R SIGNALS IN THIRD TAKEN IMAGE FOR WHICH POSITION (X43, Y43) TRANSFORMED FROM POSITION (X3, Y3) OF EACH R SIGNAL IN THIRD TAKEN IMAGE SATISFIES  $\alpha$  × (i - 1) +  $\beta$  - 2  $\leq$  X43  $\leq$   $\alpha$  × (i - 1) +  $\beta$  + 2 AND  $\alpha$  × (j - 1) +  $\gamma$  - 2  $\leq$  Y43  $\leq$   $\alpha$  × (j - 1) +  $\gamma$  + 2. LET NUMBER OF R SIGNALS BE N3 AND LET VALUE AND POSITION OF EACH FETCHED R SIGNAL BE (R<sub>3</sub>(p), X<sub>3</sub>(p), Y<sub>3</sub>(p)). LET (X<sub>43</sub>, Y<sub>43</sub>) TRANSFORMED FROM (X<sub>3</sub>, Y<sub>3</sub>) OR (X<sub>3</sub>(p), Y<sub>3</sub>(p)) BE (X<sub>43</sub>(p), Y<sub>43</sub>(p)). IN THIS CASE,  $p = 1 \sim N_3$  3325

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FETCH ALL R SIGNALS IN FOURTH TAKEN IMAGE FOR WHICH POSITION (X<sub>44</sub>, Y<sub>44</sub>) TRANSFORMED FROM POSITION (X<sub>4</sub>, Y<sub>4</sub>) OF EACH R SIGNAL IN FOURTH TAKEN IMAGE SATISFIES  $\alpha$  × (i - 1) +  $\beta$  + 2 AND  $\alpha$  × (j - 1) +  $\gamma$  - 2  $\leq$  Y<sub>44</sub>  $\leq$   $\alpha$  × (j - 1) +  $\gamma$  + 2. LET NUMBER OF R SIGNALS BE N<sub>4</sub> AND LET VALUE AND POSITION OF EACH FETCHED R SIGNAL BE (R<sub>4</sub>(p), X<sub>4</sub>(p), Y<sub>4</sub>(p)). LET (X<sub>44</sub>, Y<sub>44</sub>) TRANSFORMED FROM (X<sub>4</sub>, Y<sub>4</sub>) OR (X<sub>4</sub>(p), Y<sub>4</sub>(p)) BE (X<sub>44</sub>(p), Y<sub>44</sub>(p)). IN THIS CASE,  $p = 1 \sim N_4$  **S326** 

FROM POSITION ( $X_5$ ,  $Y_5$ ) OF EACH R SIGNAL IN FIFTH TAKEN IMAGE SATISFIES  $\alpha \times (i-1) + \beta + 2$  AND  $\alpha \times (j-1) + \gamma - 2 \le Y_{45} \le \alpha \times (j-1) + \gamma + 2$ . LET NUMBER OF R SIGNALS BE N<sub>5</sub> AND LET VALUE AND POSITION OF EACH FETCHED R SIGNAL BE ( $X_5(p)$ ,  $X_5(p)$ ,  $Y_5(p)$ ). LET ( $X_{45}$ ,  $Y_{45}$ ) TRANSFORMED FROM ( $X_5$ ,  $Y_5$ ) OR ( $X_5(p)$ ,  $Y_5(p)$ ) BE ( $X_{45}(p)$ ,  $Y_{45}(p)$ ). IN THIS CASE,  $p=1 \sim N_5$ FETCH ALL R SIGNALS IN FIFTH TAKEN IMAGE FOR WHICH POSITION (X45, Y45) TRANSFORMED

(5)

**S329** 

## FIG.35

(2)

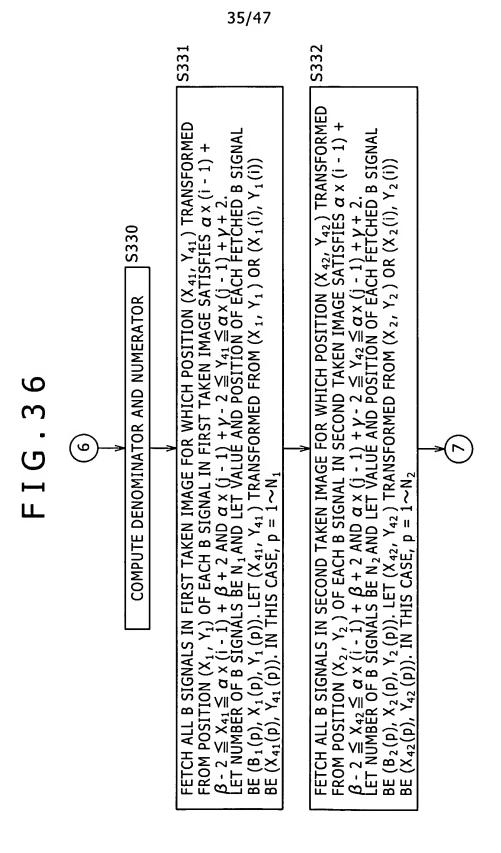
FETCH ALL R SIGNALS IN SIXTH TAKEN IMAGE FOR WHICH POSITION (X 46, Y 46) TRANSFORMED FROM POSITION ( $X_6$ ,  $Y_6$ ) OF EACH R SIGNAL IN SIXTH TAKEN IMAGE SATISFIES  $\alpha \times (i-1) + \beta + 2$  And  $\alpha \times (j-1) + \gamma - 2 \le Y_{46} \le \alpha \times (j-1) + \gamma + 2$ . LET NUMBER OF R SIGNALS BE  $N_6$  AND LET VALUE AND POSITION OF EACH FETCHED R SIGNAL BE ( $R_6(p)$ ,  $X_6(p)$ ,  $Y_6(p)$ ). LET ( $X_{46}$ ,  $Y_{46}$ ) TRANSFORMED FROM ( $X_6$ ,  $Y_6$ ) OR ( $X_6(p)$ ,  $Y_6(p)$ ) BE ( $X_{46}(p)$ ,  $Y_{46}(p)$ ). IN THIS CASE,  $p=1 \sim N_6$  FETCH ALL R SIGNALS IN SEVENTH TAKEN IMAGE FOR WHICH POSITION (X  $_{47}$ , Y  $_{47}$ ) TRANSFORMED FROM POSITION (X  $_{7}$ , Y  $_{7}$ ) OF EACH R SIGNAL IN SEVENTH TAKEN IMAGE SATISFIES  $\alpha$  x (i - 1) + eta - 2  $\le$  X<sub>47</sub>  $\le$   $\alpha$  × (i - 1) + eta + 2 AND  $\alpha$  × (j - 1) +  $\gamma$  - 2  $\le$  Y<sub>47</sub>  $\le$   $\alpha$  × (j - 1) +  $\gamma$  + 2. LET NUMBER OF R SIGNALS BE N<sub>7</sub> AND LET VALUE AND POSITION OF EACH FETCHED R SIGNAL BE (R<sub>7</sub>(p), X<sub>7</sub>(p), Y<sub>7</sub>(p)). LET (X<sub>47</sub>, Y<sub>47</sub>) TRANSFORMED FROM (X<sub>7</sub>, Y<sub>7</sub>) OR (X<sub>7</sub>(p), Y<sub>7</sub> (p)) BE (X<sub>47</sub>(p), Y<sub>47</sub>(p)). IN THIS CASE,  $p = 1 \sim N_7$ FROM POSITION (X, Y,)

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**S328** 

FETCH ALL R SIGNALS IN EIGHTH TAKEN IMAGE FOR WHICH POSITION (X<sub>48</sub>, Y<sub>48</sub>) TRANSFORMED FROM POSITION (X<sub>8</sub>, Y<sub>8</sub>) OF EACH R SIGNAL IN EIGHTH TAKEN IMAGE SATISFIES  $\alpha \times (i-1) + \beta + 2$  AND  $\alpha \times (j-1) + \gamma - 2 \le Y_{48} \le \alpha \times (j-1) + \gamma + 2$ . LET NUMBER OF R SIGNALS BE N<sub>8</sub> AND LET VALUE AND POSITION OF EACH FETCHED R SIGNAL BE (R<sub>8</sub>(p), X<sub>8</sub>(p), Y<sub>8</sub>(p)). LET (X<sub>48</sub>, Y<sub>48</sub>) TRANSFORMED FROM (X<sub>8</sub>, Y<sub>8</sub>) OR (X<sub>8</sub>(p), Y<sub>8</sub>(p)) BE (X<sub>48</sub>(p), Y<sub>48</sub>(p)). IN THIS CASE, p =  $1 \sim N_8$ 

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**S332** 

### FIG.37

FETCH ALL B SIGNALS IN THIRD TAKEN IMAGE FOR WHICH POSITION ( $\chi_{43}$ ,  $\gamma_{43}$ ) TRANSFORMED FROM POSITION ( $\chi_3$ ,  $\gamma_3$ ) OF EACH B SIGNAL IN THIRD TAKEN IMAGE SATISFIES  $\alpha$  × (i - 1) +  $\beta$  - 2  $\leq$  X<sub>43</sub>  $\leq$   $\alpha$  × (i - i) +  $\beta$  + 2 AND  $\alpha$  × (i - 1) +  $\gamma$  - 2  $\leq$  Y<sub>43</sub>  $\leq$   $\alpha$  × (i - 1) +  $\gamma$  + 2. LET NUMBER OF B SIGNALS BE N<sub>3</sub> AND LET VALUE AND POSITION OF EACH FETCHED B SIGNAL BE (B<sub>3</sub>(p), X<sub>3</sub>(p), Y<sub>3</sub>(p)). LET (X<sub>43</sub>, Y<sub>43</sub>) TRANSFORMED FROM (X<sub>3</sub>, Y<sub>3</sub>) OR (X<sub>3</sub>(p), Y<sub>3</sub>(p)) BE (X<sub>43</sub>(p), Y<sub>43</sub>(p)). IN THIS CASE, p = 1  $\sim$  N<sub>3</sub> FETCH ALL B SIGNALS IN FOURTH TAKEN IMAGE FOR WHICH POSITION ( $\chi_{44}$ ,  $\gamma_{44}$ ) TRANSFORMED FROM POSITION ( $\chi_4$ ,  $\gamma_4$ ) OF EACH B SIGNAL IN FOURTH TAKEN IMAGE SATISFIES  $\alpha$  × (i - 1) +  $\beta$  + 2 AND  $\alpha$  × (j - 1) +  $\gamma$  - 2  $\leq$   $\gamma_{44} \leq \alpha$  × (j - 1) +  $\gamma$  + 2. LET NUMBER OF B SIGNALS BE N<sub>4</sub> AND LET VALUE AND POSITION OF EACH FETCHED B SIGNAL BE (B<sub>4</sub>(p),  $\chi_4$ (p),  $\chi_4$ (p),  $\chi_4$ (p),  $\chi_4$ (p), IN THIS CASE,  $\rho$  = 1 $\sim$ N<sub>4</sub>

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**S334** 

FETCH ALL B SIGNALS IN FIFTH TAKEN IMAGE FOR WHICH POSITION (X45, Y45) TRANSFORMED FROM POSITION (X<sub>5</sub>, Y<sub>5</sub>) OF EACH B SIGNAL IN FIFTH TAKEN IMAGE SATISFIES  $\alpha$  × (i - 1) +  $\beta$  - 2  $\leq$  X<sub>45</sub>  $\leq$   $\alpha$  × (i - 1) +  $\beta$  + 2 AND  $\alpha$  × (j - 1) +  $\gamma$  - 2  $\leq$  Y<sub>45</sub>  $\leq$   $\alpha$  × (j - 1) +  $\gamma$  + 2. LET NUMBER OF B SIGNALS BE N<sub>5</sub> AND LET VALUE AND POSITION OF EACH FETCHED B SIGNAL BE (B  $_5$ (p), X  $_5$ (p), Y  $_5$ (p)). LET (X  $_4$   $_5$ , Y  $_4$   $_5$ ) TRANSFORMED FROM (X  $_5$  , Y  $_5$  ) OR (X  $_5$ (p), Y  $_5$  (p)) BE (X  $_4$   $_5$ (p), Y  $_4$   $_5$ (p)). IN THIS CASE, p = 1  $\sim$  N  $_5$ 

8

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FETCH ALL B SIGNALS IN SIXTH TAKEN IMAGE FOR WHICH POSITION (X 46, Y 46) TRANSFORMED FROM POSITION ( $X_6$ ,  $Y_6$ ) OF EACH B SIGNAL IN SIXTH TAKEN IMAGE SATISFIES  $\alpha$  x (i - 1) +  $\beta$  + 2 AND  $\alpha$  x (j - 1) +  $\gamma$  + 2  $\leq$   $X_{46} \leq \alpha$  x (j - 1) +  $\gamma$  + 2. LET NUMBER OF B SIGNALS BE N<sub>6</sub> AND LET VALUE AND POSITION OF EACH FETCHED B SIGNAL BE (B<sub>6</sub>(p), X<sub>6</sub>(p), Y<sub>6</sub>(p)). LET ( $X_{46}$ ,  $Y_{46}$ ) TRANSFORMED FROM ( $X_6$ , Y<sub>6</sub>) OR ( $X_6$ (p), Y<sub>6</sub>(p)) BE ( $X_{46}$ (p), Y<sub>46</sub>(p)). IN THIS CASE,  $\gamma$  = 1  $\sim$  N<sub>6</sub> FETCH ALL B SIGNALS IN SEVENTH TAKEN IMAGE FOR WHICH POSITION (X  $_{47}$ , Y  $_{47}$ ) TRANSFORMED FROM POSITION (X  $_{7}$ , Y  $_{7}$ ) OF EACH B SIGNAL IN SEVENTH TAKEN IMAGE SATISFIES  $\alpha$  x (i - 1) + eta - 2  $\leq$  X<sub>47</sub>  $\leq$   $\alpha$   $\times$  (i - 1) + eta + 2 AND  $\alpha$   $\times$  (j - 1) +  $\gamma$  - 2  $\leq$  Y<sub>47</sub>  $\leq$   $\alpha$   $\times$  (j - 1) +  $\gamma$  + 2. LET NUMBER OF B SIGNALS BE N, AND LET VALUE AND POSITION OF EACH FETCHED B SIGNAL

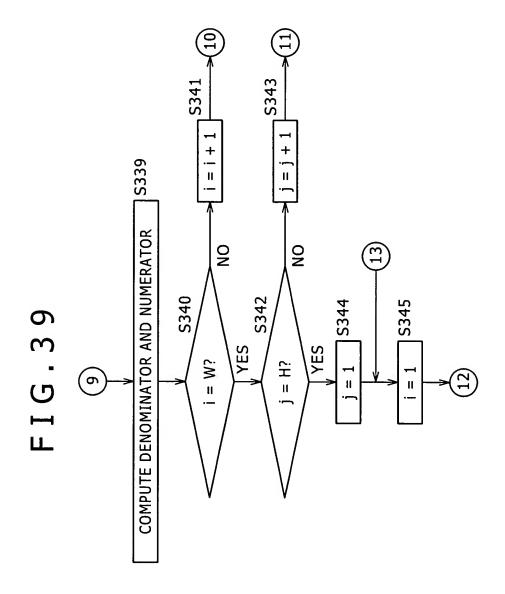
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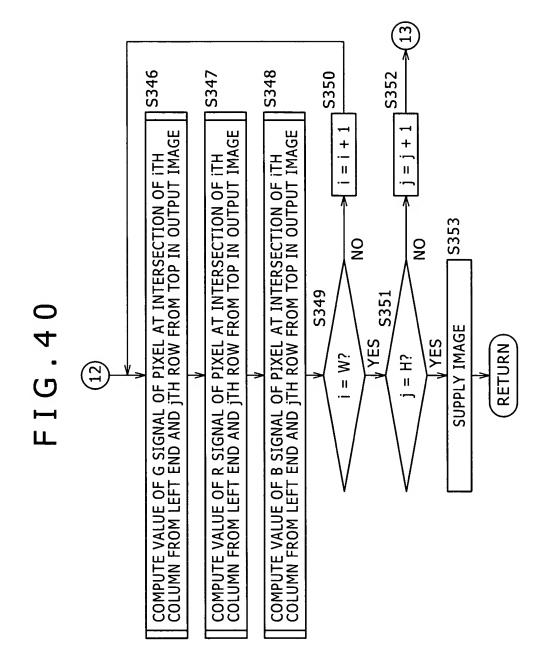
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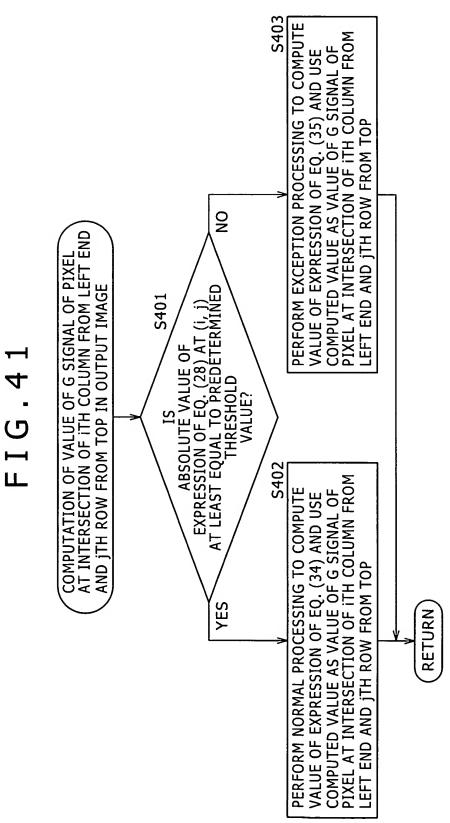
BE (B<sub>7</sub>(p), X<sub>7</sub>(p), Y<sub>7</sub>(p)). LET (X<sub>47</sub>, Y<sub>47</sub>) TRANSFORMED FROM (X<sub>7</sub>, Y<sub>7</sub>) OR (X<sub>7</sub>(p), Y<sub>7</sub>(p)) BE (X<sub>47</sub>(p), Y<sub>47</sub>(p)). IN THIS CASE,  $p = 1 \sim N_7$ 

FETCH ALL B SIGNALS IN EIGHTH TAKEN IMAGE FOR WHICH POSITION ( $\chi_{48}$ ,  $\gamma_{48}$ ) TRANSFORMED FROM POSITION ( $\chi_8$ ,  $\gamma_8$ ) OF EACH B SIGNAL IN EIGHTH TAKEN IMAGE SATISFIES  $\alpha \times (i-1) + \beta + 2$  AND  $\alpha \times (j-1) + \gamma - 2 \le \gamma_{48} \le \alpha \times (j-1) + \gamma + 2$ . LET NUMBER OF B SIGNALS BE N<sub>8</sub> AND LET VALUE AND POSITION OF EACH FETCHED B SIGNAL  $(B_8(p), X_8(p), Y_8(p))$ . LET  $(X_{48}, Y_{48})$  TRANSFORMED FROM  $(X_8, Y_8)$  OR  $(X_8(p), Y_8(p))$ BE (B<sub>8</sub>(p), X<sub>8</sub>(p), Y<sub>8</sub>(p)), Y<sub>8</sub>(p)), Y<sub>8</sub>(p)). IN THIS CASE, p =  $1 \sim N_8$ 

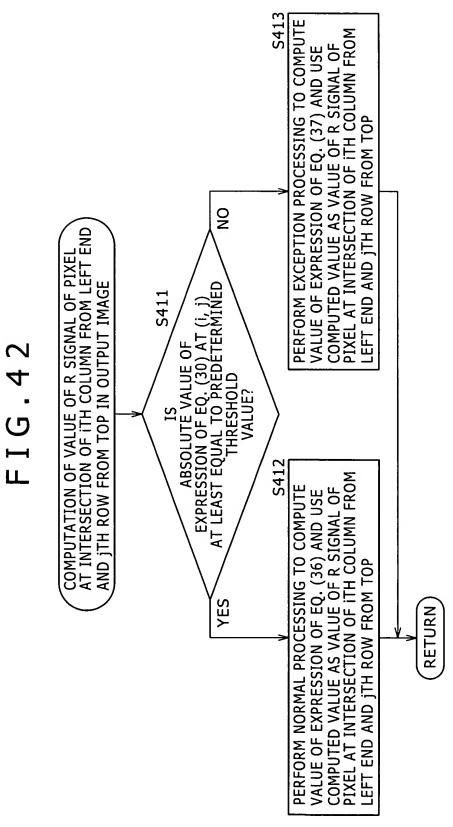
**S338** 



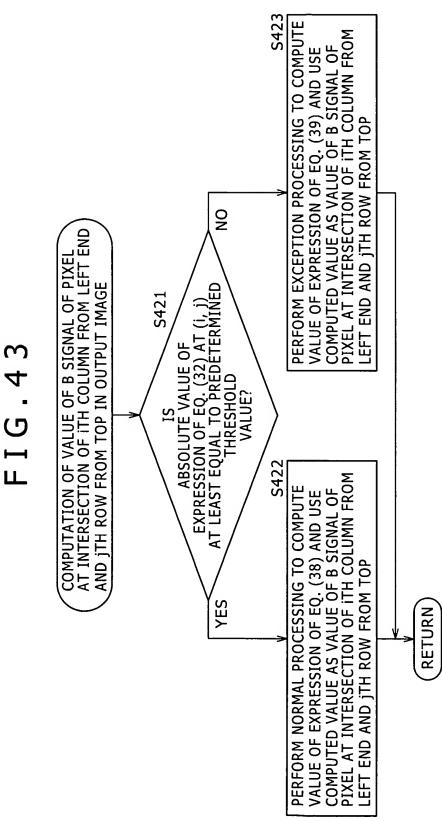




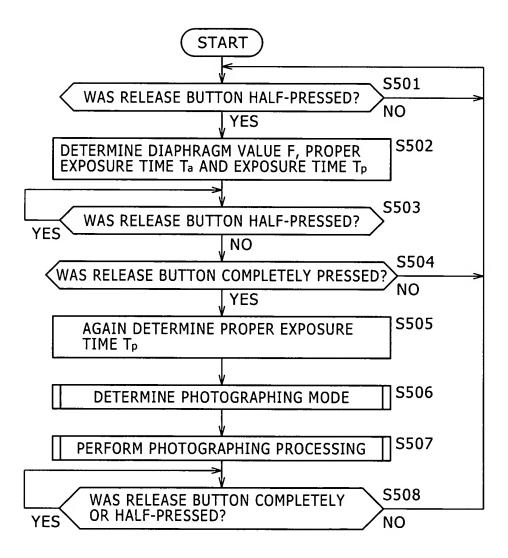
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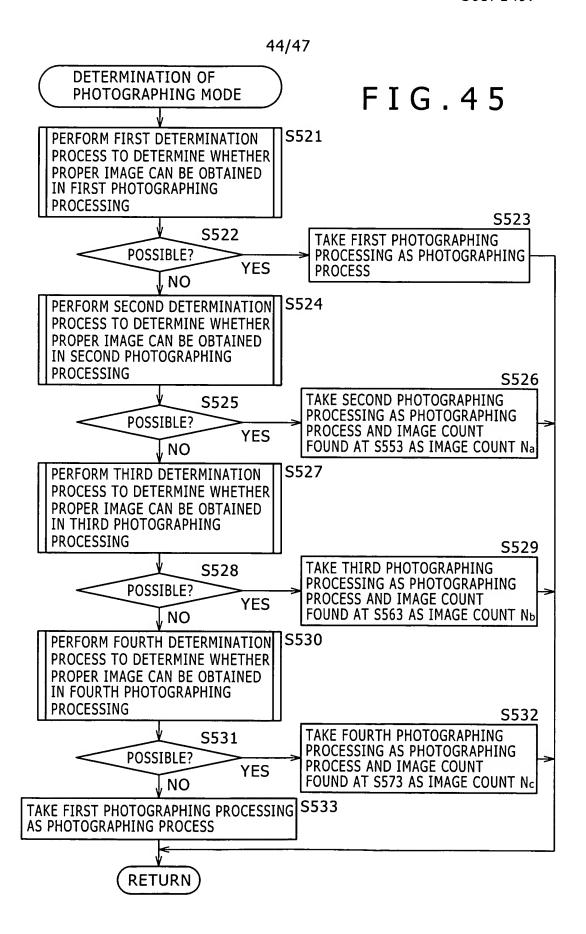


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FIG.46

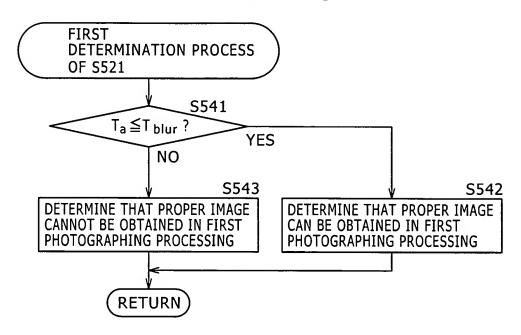


FIG.47

